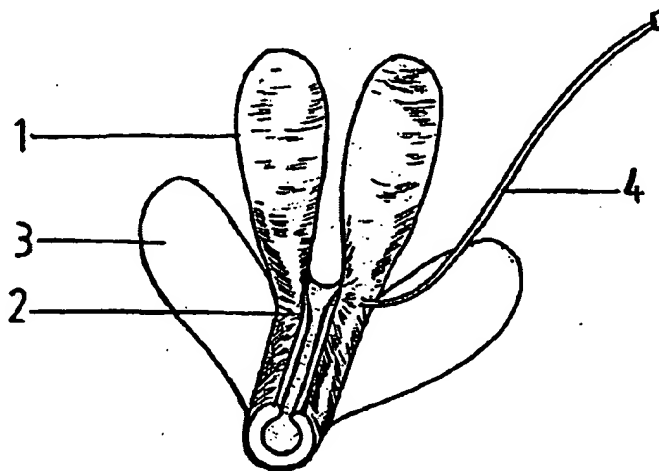




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(34) Title: **DEVICE FOR GENUINE STRESS INCONTINENCE IN THE FEMALE**

## (57) Abstract

This implantable continence device consists of a hydraulic and a mechanical component. The hydraulic component comprises two retroperitoneal fluid filled balloon reservoirs (1) which communicates with a periurethral cuff (2) to form a complete hydraulic system. At the upper end of the periurethral cuff (2) there is a fluid outlet channel (4) to regulate the biocompatible fluid in the hydraulic system. The mechanical component comprises of two strips of biocompatible mesh extending sideways from the base of the periurethral cuff (2) to form two wings (3). Both wings are transfixed to pelvic fascia and white line of the pelvis using non absorbable material. The base of the periurethral cuff (2) and the necks of the balloon reservoirs are reinforced to achieve non kink properties. Both components are made of suitable biocompatible material and the hydraulic system is filled with biocompatible fluid. This device improves both resting and stress urethral pressure profile and prevents herniation of bladder neck and proximal urethra during the periods of increased intra-abdominal pressure.

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